What is claimed is:

1.   A method, comprising:

receiving a first schema database;

forming a virtual schema including at least a portion of a dataset included within the first database;

receiving a first input indicating a criteria;

aggregating data of the database into one or more groupings in accordance with the virtual schema and the first input indicating the criteria; and

displaying one or more indicators associated with the one or more groupings on an n-dimensional presentation.

2.   The method of claim 1, further comprising:

receiving a second input indicating one or more regions;

storing the second input as a spatial-object meta data; and

aggregating the groupings based upon the spatial-object meta data.

3.   The method of claim 2, further comprising:

displaying one or more indicators associated with the one or more groupings in a region associated therewith on an n-dimensional presentation.

4.   The method of claim 2, wherein

the region comprises at least one of:

a polygon,

a circle,

a rectangle,

an ellipse, and

an animal home range.

5.   The method of claim 2, wherein:

the second input indicating one or more regions comprises:

at least one of:

an input from a user,

a pre-determined area,

6　　　　　　　　a derivation based upon one or more objects on the n-dimensional

7　presentation, and

8　　　　　　　　a result of a computation.

1　　　　　6.　　The method of claim 5, wherein:

2　　　　　　　　the pre-determined area comprises at least one of:

3　　　　　　　　a zip code,

4　　　　　　　　an area code,

5　　　　　　　　a census tract,

6　　　　　　　　a Metropolitan Statistical Area (MSA),

7　　　　　　　　a nation state,

8　　　　　　　　a state,

9　　　　　　　　a county,

10　　　　　　　　a municipality,

11　　　　　　　　a latitude, and

12　　　　　　　　a longitude.

1　　　　　7.　　The method of claim 5, wherein:

2　　　　　　　　the derivation based upon one or more objects on the n-dimensional

3　presentation comprises:

4　　　　　　　　a region within a specified distance of a power line.

1　　　　　8.　　The method of claim 5, wherein:

2　　　　　　　　the result of a computation comprises:

3　　　　　　　　computing an animal home range, the home range providing a region

4　defined by activities of a target;

5　　　　　　　　defining within the region a first ellipse; and

6　　　　　　　　defining within the region a second ellipse approximately orthogonal to the

7　first ellipse; wherein

8　　　　　　　　an area defined by intersection of the first ellipse and the second ellipse

9　provides a greatest probability of finding the target.

1　　　　　9.　　The method of claim 8, wherein:

2　　　　　　　　the target comprises at least one of:

3　　　　　　　　a suspect, who perpetrated criminal acts defined by the data,

4   a customer, who completed transactions in shops defined by the data,

5   a source of biological material, which caused infections in persons defined

6   by the data.

1   10.   The method of claim 2, wherein:

2   aggregating the groupings based upon the spatial-object meta data

3   comprises:

4   checking whether data points fall within a common region, and

5   if so, aggregating data represented by the data points.

1   11.   The method of claim 3, wherein:

2   the n-dimensional presentation comprises a map.

1   12.   The method of claim 11, wherein:

2   displaying one or more indicators further comprises:

3   determining an x, y coordinate for each region on the map;

4   displaying at least one indicator associated with the one or more groupings

5   on the map at the x, y coordinate.

1   13.   The method of claim 2, further comprising:

2   receiving a third input indicating a one or more redefined regions;

3   storing the third input as a redefined spatial-object meta data; and

4   aggregating into new groupings based upon the spatial-object meta data.

1   14.   The method of claim 2, further comprising:

2   redefining the virtual schema based upon the spatial-object meta data.

1   15.   The method of claim 14, wherein:

2   redefining the virtual schema based upon the spatial-object meta data

3   comprises:

4   receiving a third input indicating a criteria;

5   aggregating data of the database into one or more new groupings in

6   accordance with the redefined virtual schema and the third input indicating the criteria;

7   and

8   displaying one or more indicators associated with the one or more new

9   groupings on an n-dimensional presentation.

1   16.   The method of claim 2, further comprising:

2   receiving a third input indicating a relationship between a first data point

3 and a second data point on the n-dimensional presentation;

4   reflecting the relationship in the virtual schema;

5   aggregating data of the database into one or more new groupings in

6 accordance with the virtual schema; and

7   displaying one or more indicators associated with the one or more new

8 groupings on an n-dimensional presentation.

1   17.   The method of claim 1, further comprising:

2   receiving a second database;

3   forming a virtual schema including at least a portion of a dataset included

4 within at least one of the first database and the second database;

5   receiving a first input indicating a criteria;

6   aggregating data of at least one of the first database and the second

7 database into one or more groupings in accordance with the virtual schema and the first

8 input indicating the criteria; and

9   displaying one or more indicators associated with the one or more

10 groupings on an n-dimensional presentation.

1   18.   The method of claim 1, further comprising:

2   generating code in accordance with the virtual schema.

1   19.   The method of claim 1, further comprising:

2   providing customer centric information to a core of customer data within

3 the database in accordance with the virtual schema.

1   20.   A method, comprising:

2   receiving a first schema database;

3   forming a virtual schema including at least a portion of a dataset included

4 within the first database;

5   receiving a first input indicating a criteria;

6   receiving a second input indicating one or more regions;

7   aggregating data of the database into one or more groupings in accordance

8   with the virtual schema, the first input indicating the criteria, and the second input

9   indicating the one or more regions of interest; and

10   displaying one or more indicators associated with the one or more

11   groupings on an n-dimensional presentation.

1   21.   A system, comprising:

2   a schema builder that generates one or more virtual schemas including at

3   least a portion of data input from a source, and generates mapping rules controlling data

4   movement into a data warehouse;

5   a metadata repository operative to hold the virtual schemas and mapping

6   rules;

7   a data warehouse builder;

8   a spatial-object data repository;

9   a region checker; and

10   an n-dimensional presentation;

11   wherein the data warehouse is defined by at least a portion of the data

12   input, the virtual schemas, the mapping rules, and the analysis functions.

1   22.   The system of claim 21 wherein:

2   the source comprises at least one of a plurality of on line transaction

3   processing (OLTP) databases.

1   23.   An apparatus, comprising:

2   means for generating one or more virtual schemas including at least a

3   portion of data input from a source;

4   means for generating mapping rules controlling data movement into a data

5   warehouse;

6   means for holding the virtual schemas and mapping rules;

7   means for generating one or more analysis functions based upon the virtual

8   schemas and data input.

1   24.   A computer program product, comprising:

2   code for providing a user interface;

3   code for generating customer data analysis function code;

4   code for scheduling tasks for managing a data warehouse;

5   code for pre-processing data for movement into the data warehouse;

6   code for managing creation of the data warehouse;

7   code for defining customer data analysis functions;

8   code for performing data source analysis;

9   code for planning operations of a customer data analysis environment; and

10   a computer readable storage medium for holding the codes.

1   25.   A computer program product, comprising:

2   code for accessing meta data from a repository;

3   code for translating entities from a meta model into a data schema to form

4 a database;

5   code for providing customer activity correlation queries with access to a

6 database of a data warehouse;

7   code for providing customer data analysis functions;

8   code for providing analysis results to at least one of a plurality of business

9 applications; and

10   a computer readable storage medium for holding the codes.

1   26.   A customer data analysis report produced according to the method

2 of claim 1.

1   27.   A method, comprising:

2   providing a focal group, comprising:

3   at least one of a plurality of core components; and

4   at least one of a plurality of classification components providing

5 classifications for information relating to the core components; and

6   providing at least one customized group, comprising:

7   at least one of a plurality of customer activity components related

8 to the core component; and

9   at least one of a plurality of activity lookup components related to

10 at least one of the customer activity components;

11   wherein the focal group and the customized group comprise a reverse star

12 schema meta model.

1   28.   A computer readable storage medium containing information

2   organized according to the method of claim 27.

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